

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **2001-044930**

(43)Date of publication of application : **16.02.2001**

(51)Int.Cl.

H04B 7/26

H04B 3/46

(21)Application number : **11-216314**

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(22)Date of filing : **30.07.1999**

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(54) **DEVICE AND METHOD FOR RADIO COMMUNICATION**

(57)Abstract:

PROBLEM TO BE SOLVED: To perform radio communication at a transmission rate meeting desired communication quality in accordance with propagation path loss by considering the entire line capacity of a service area.

SOLUTION: A transmission power deciding part 105 decides a transmission power value in the communication with a self-station so as not to be interference with the communication with another station on the basis of a transmission power value in the communication with the other station, an SIR measuring part 103 measures SIR (desired wave-to-interference potential power ratio) about a known reference signal in a received signal, and a transmission rate deciding part 109 decides a transmission rate value meeting desired communication quality according to the decided transmission power value and the measured SIR value.

